	Application No.	Applicant(s)
·	10/730,903 Examiner	SAITO, TOMOHIRO Art Unit
	Lamino	
	William M. Brewster	2823
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>13 February 2006</u> .		
2.  The allowed claim(s) is/are <u>1-12</u> .		
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b) ☐ Some* c) ☐ None of the:		
<ol> <li>☐ Certified copies of the priority documents have been received.</li> </ol>		
2. Certified copies of the priority documents have been received in Application No		
3.  Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached		
1)  hereto or 2)  to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
<ol> <li>DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.</li> </ol>		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal F	Patent Application (PTO-152)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	(PTO-413),
3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/	Paper No./Mail Da 08), 7. ⊠ Examiner's Amend	ite ment/Comment
Paper No./Mail Date <u>921996</u> 11/9/05  4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Statem	ent of Reasons for Allowance
of Biological Material	9. <b>☑</b> Other <u>٩٥૮</u> .	24

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## **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

## a) In the Title

Replace title with: --Method of Manufacturing a Semiconductor Device Including Forming a Pattern, an Interlayer Insulation Film, Exposing the Patterning and Flattening

## b) In the Claims

In claim 1, line 12, delete "him" and insert -- film--

Cancel claims 13 and 14.

This application is in condition for allowance except for the presence of claims 13-14 directed to an invention non-elected without traverse. Accordingly, claims 13-14 have been cancelled.

## **Reasons for Allowances**

The following is an examiner's statement of reasons for allowance: the features in claim 1, lines 6-16, "depositing an interlayer insulation film to cover the first and second patterns;

the interlayer insulation film filling a region between the first and second patterns;

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forming a photoresist film on the interlayer insulation film;

treating the photoresist film in stepper exposure and development to form a photoresist pattern of a photomask having its device pattern matched with the

first

pattern and its alignment marks matched with the second pattern;

selectively etching off the interlayer insulation him over the first and second

patterns, with the photoresist pattern; and

after removing the photoresist pattern, flattening the interlayer insulation film to

expose the surfaces of the first and second patterns, respectively," cannot be

found in the prior art of record. The prior art of record fails to teach, in combination, the

process features.

Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to William M. Brewster whose telephone number is 571-

272-1854. The examiner can normally be reached on Full Time.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Smith can be reached on 571-272-1907. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

WILLIAM M. BREWSTER PRIMARY EXAMINER

William M. Branster

7 March 2006 WB